

# Hydro Profile



Light Efficiency:

4 Lumen/Watt

Light Quality:

CRI: 69.7

Color Temperature:

3153 K

Output: 3307 lm

Peak: 456016 cd

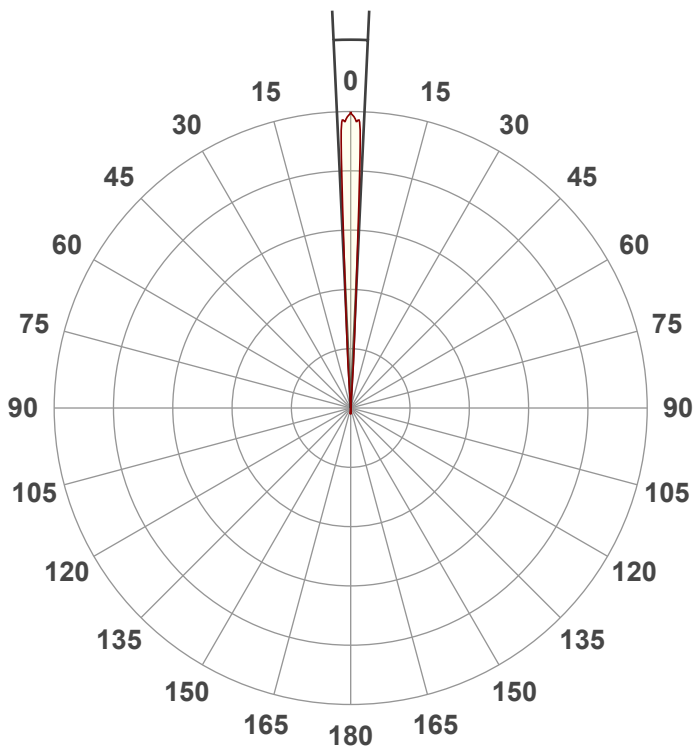
Power: 864 W

PF: 1.0



Beam Angle

5.3°



Test:

Zoom In 3200K

Date:

7/19/2022

Note:

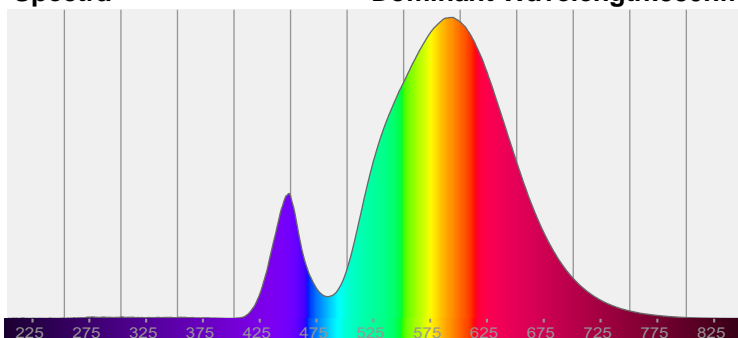
CTO @ 206



CIE 1931  
x: 0.439  
y: 0.428

Spectra

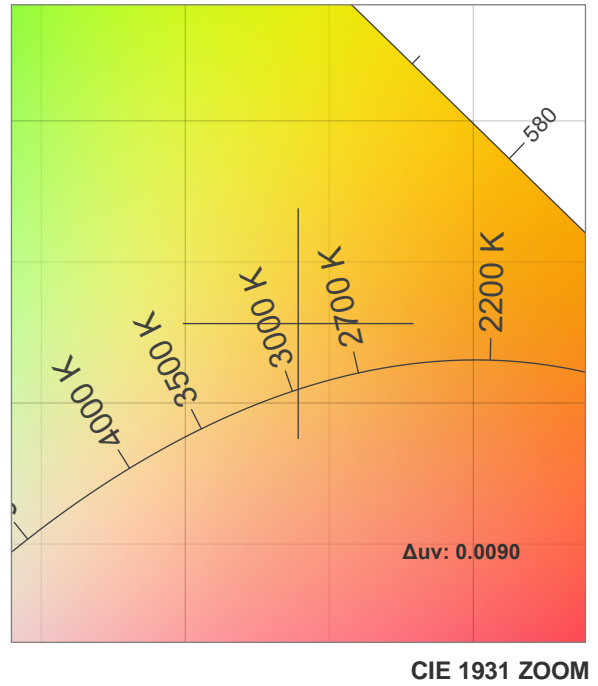
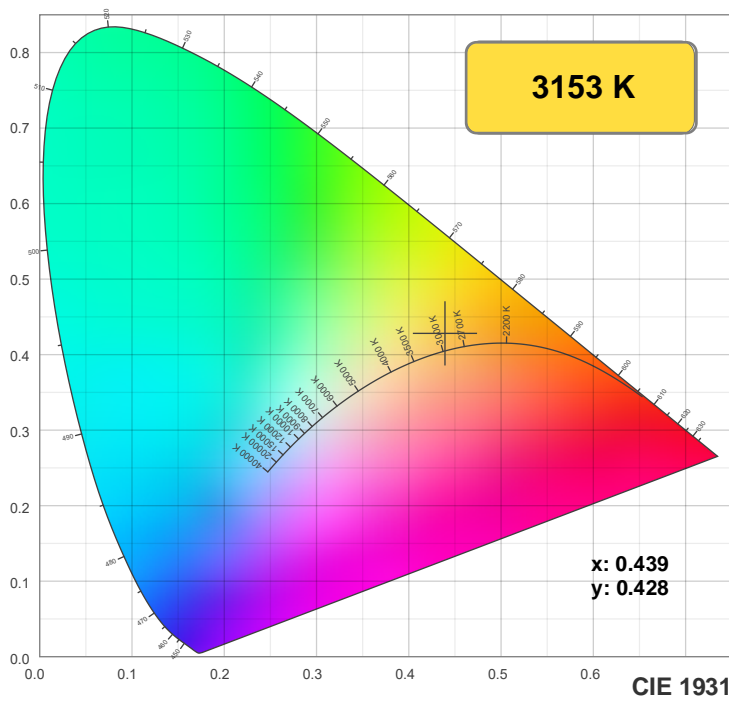
Dominant Wavelength: 580nm



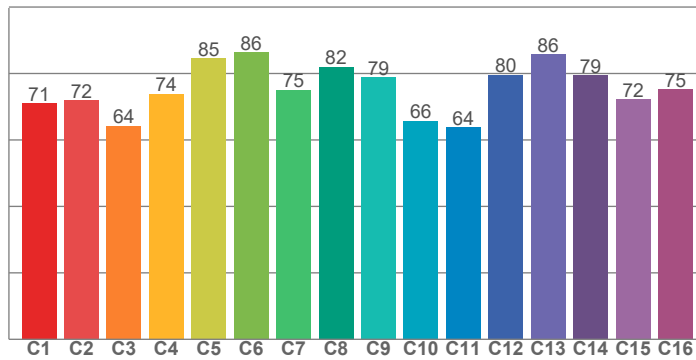
Power

Voltage: 119 V  
Current: 7.28 A  
Frequency: 0 Hz

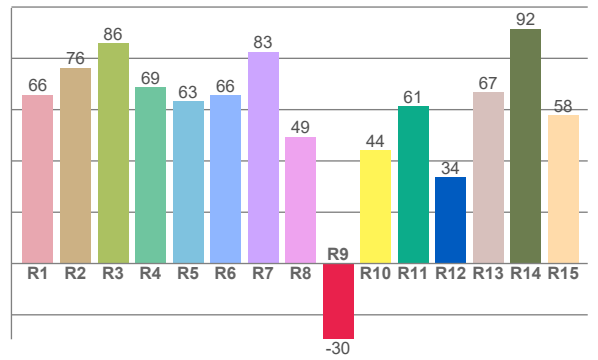
## Color Details



TM30: 75.0



CRI: 69.7 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
65.8	76.3	85.9	68.8	63.2	65.6	82.5	49.4	-29.5	44.3	61.3	33.6	66.9	91.5	57.8

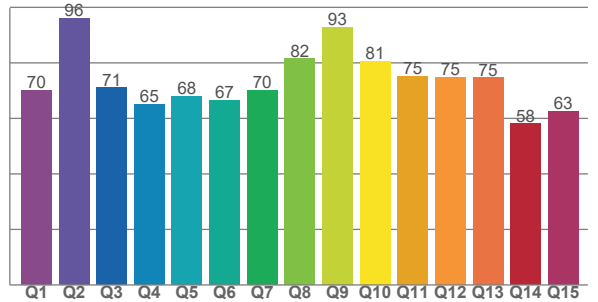
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
71.1	71.9	64.2	73.8	84.6	86.3	75.1	82.0	78.9	65.7	63.8	79.6	85.8	79.4	72.2	75.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
70.1	96.1	71.0	65.1	68.1	66.6	70.2	81.5	92.9	80.6	75.2	74.9	74.6	58.1	62.7

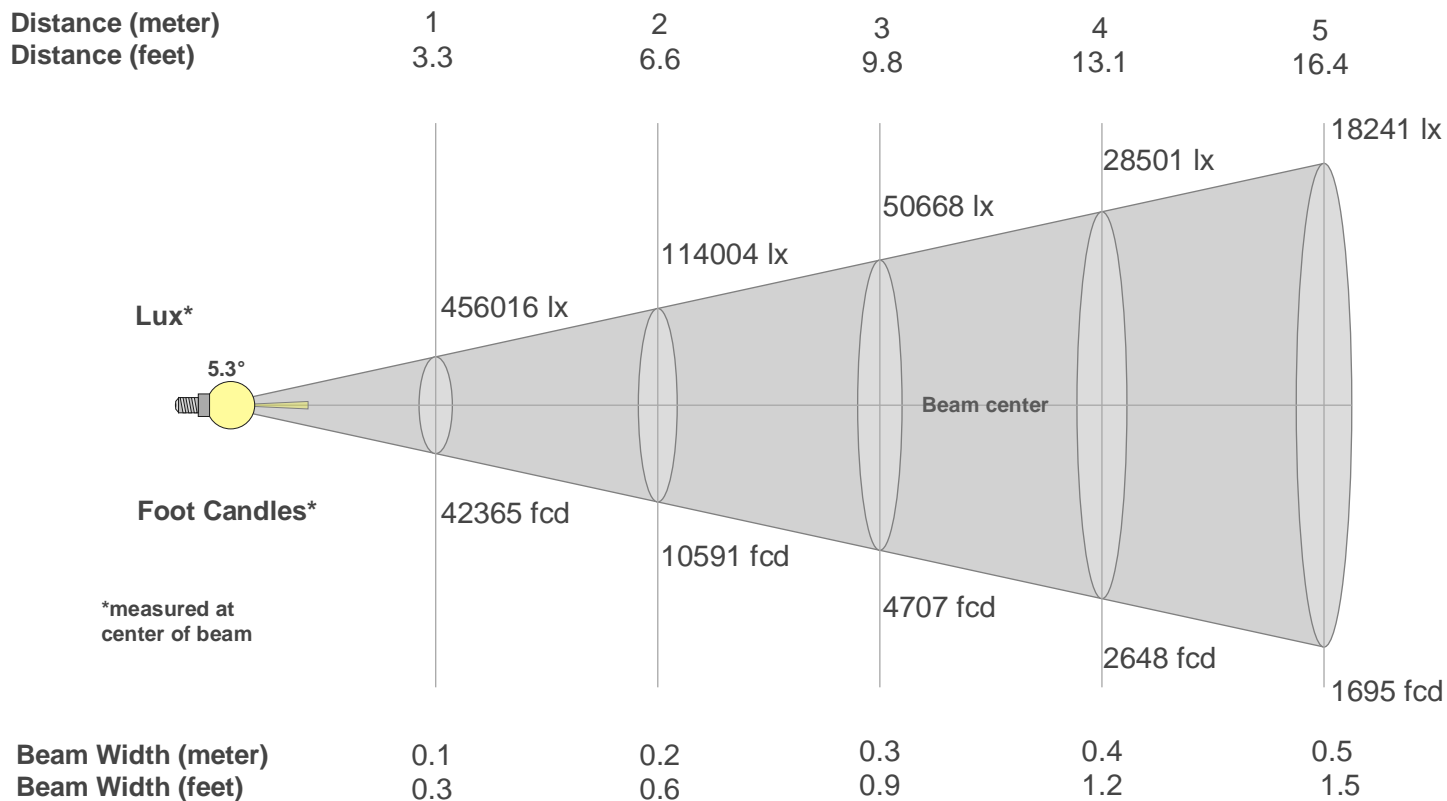
CQS: 71.9



## Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	$\Delta uv$
3153 K	69.7	-29.5	75.0	92.9	71.9	0.439	0.428	0.242	0.354	0.0090

## Beam Details



Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	456016	114004	50668	28501	18241	12667	9306	7125	5630	4560	3769	3167	2698	2327	2027	1781	1578	1407	1263	1140
fcd	42365.3	10591.3	4707.3	2647.8	1694.6	1176.8	864.6	662	523	423.7	350.1	294.2	250.7	216.1	188.3	165.5	146.6	130.8	117.4	105.9

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
456K	445K	414K	129K	5K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	28%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
456K	445K	414K	129K	5K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	28%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 180° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
456K	445K	414K	129K	5K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	28%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 270° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
456K	445K	414K	129K	5K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	91%	28%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
5.3°	7.3°	7.9°	100.0%	100.0%